

Application No. 10/568,784
Amendment dated June 5, 2007
Reply to Office Action of January 5, 2007

Page 4

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A molding apparatus (1) including a moving mold (10) for shaping molten plastic into product made within said moving mold (10), said moving mold includes opposed mold blocks which meet in a closed mold block configuration to define the moving mold in a forward run of said mold blocks with said separating mold blocks to an open configuration in a return run of said mold blocks, said moving mold (10) being surrounded by an air block housing (11) in said forward run and said return run of said mold blocks to define a cooling chamber (13) exteriorly around said moving mold (10), a source of cooling air (24), the cooling air (24) being contained by said housing (11) within said cooling chamber (13) to act on and provide cooling of said moving mold (10); said cooling chamber maintaining a trapped cooled air environment about said moving mold.

2. (original) Apparatus (1) as claimed in Claim 1 wherein the source of cooling air (24) comprises at least one cooling air unit (21, 25).

3. (currently amended) Apparatus (1) as claimed in Claim 2 wherein said cooling unit (21, 25) is located internally of said air block housing (11).

4. (original) Molding apparatus (1) as claimed in Claim 3 including at least one blower (27) for circulating the cooled air (24) within said cooling chamber (13).

5. (original) Apparatus as claimed in Claim 2 wherein said cooling unit (21, 25) is located externally of said air block housing (11), said apparatus including ducting (15) from said unit (21,

5 or less	A
5-10	B
10-20	C
20 or more	D

2) Triolein-decomposing Property (Oil-decomposing Activity)

Triolein (Highest reagent grade, Wako Pure Chemical) in an amount of 0.1 mg/cm² was coated onto a test sample being cut to a dimension of 5 cm x 5 cm by using tissue paper (Kimwipe), and the sample was then placed in a container maintained at 25 °C and 70% R.H. The sample in the container was then subjected to irradiation with commercially-available 15W black light fluorescence lamp by adjusting a distance between the light source and the sample surface so as to receive UV light in UV-A region at strength of 3 mW/cm² at a surface point of the sample. Reducing amount of triolein relative to light irradiation time was measured by using a analytical balance to determined triolein-decomposing activity.

Remaining rate of Triolein after 5 days (%)	Evaluated rank
10% or lower	A (18 µg/cm ² /day or more)
50%-10%	B (10-18 µg/cm ² /day)
75%-50%	C (5-10 µg/cm ² /day)
95%-75%	D (1-5 µg/cm ² /day)
95% or more	E (1 µg/cm ² /day or less)

3) Antibacterial Activity

A sample being cut to a dimension of 5 cm x 5 cm was disinfected with 80% ethanol and dried at 150 °C. Consequently, bacterial solution of E. coli in an amount of 0.2 ml, which is cultured and diluted to a concentration of 10⁵ bacteria/ml beforehand, was fed dropwise onto the surface of the sample and placed in an incubator. For this evaluation test, each 4 samples were provided for two different lighting conditions, one case where irradiation of white fluorescence lamps (15W x 2 lamps, distance between a lamp and the sample, 10 cm) was done and the other case where no irradiation of white fluorescence lamp was given. After predetermined intervals, which are 1, 2, 3 and 4 hours later, respectively, the samples were taken out from the incubator, and the bacterial solution on the sample was removed with disinfected gauze